

Claims

1. A mold for forming an information pattern including servo information or address information on a substrate of a recording medium by pressing a concave and convex face onto the heated substrate, wherein

the mold is made from carbon.

2. The mold according to claim 1, wherein
said carbon is crystalline graphite whose covalent bond surface is formed perpendicularly to a pressing direction.

3. A mold for forming an information pattern including servo information or address information on a substrate of a recording medium by being pressed onto the heated substrate, comprising:
a carbon plate;
a bonding layer formed on the carbon plate; and
a crystalline graphite plate bonded onto said bonding layer,
wherein

the crystalline graphite has a covalent bond surface that is formed perpendicularly to a pressing direction.

4. A method of manufacturing a mold for forming an information pattern including servo information or address information on a substrate of a recording medium by being pressed onto the heated substrate, comprising the steps of:

forming a mask corresponding to said information pattern on a carbon plate;

etching said carbon plate in areas on which said mask is not formed; and

removing said mask.

5. A method of manufacturing a mold for forming an information pattern including servo information or address information on a substrate of a recording medium by being pressed onto the heated substrate, comprising the steps of:

subjecting a crystalline graphite plate to cleavage;

forming a mask corresponding to said information pattern on the crystalline graphite plate having been subjected to the cleavage;

etching said crystalline graphite plate in areas on which said mask is not formed; and

removing said mask.

6. The method of manufacturing a mold according to claim 5, further comprising the steps of:

bonding a carbon plate on a rear face of an etched surface of said crystalline graphite plate with a bonding layer being interpolated in between.

7. A method of manufacturing a mold for forming an information pattern including servo information or address

information on a substrate of a recording medium by being pressed onto the heated substrate, comprising the steps of:

forming a resist pattern corresponding to said information pattern on a carbon plate;

forming a metal film on said carbon plate and resist;

lifting the resist formed on said carbon plate off together with the metal film formed on the resist;

etching the carbon plate using the metal film formed on said carbon plate as a mask; and

removing the metal film formed on said carbon plate.

8. A method of manufacturing a mold for forming an information pattern including servo information or address information on a substrate of a recording medium by being pressed onto the heated substrate, comprising the steps of:

forming a resist pattern corresponding to said information pattern on a carbon plate;

forming a second carbon layer on said carbon plate and resist; and

removing the resist formed on said carbon plate together with the second carbon layer formed on the resist.

9. A method of manufacturing a mold for forming an information pattern including servo information or address information on a substrate of a recording medium by being pressed

onto the heated substrate, comprising the steps of:

forming a metal film on a carbon plate;

forming a resist pattern corresponding to said information pattern on the metal film;

etching said metal film in areas on which no resist pattern is formed;

etching said carbon plate using the metal film formed on said carbon plate as a mask; and

removing the metal film formed on said carbon plate and the resist on the metal film.

10. The method of manufacturing a mold according to claim 4, wherein,

the mask is formed and the outer or inner periphery of said carbon plate is cut, with said carbon plate being firmly fastened onto a supporting base.

11. The method of manufacturing a mold according to claim 7, wherein,

the resist pattern is formed and the outer or inner periphery of said carbon plate is cut, with said carbon plate being firmly fastened onto a supporting base.

12. The method of manufacturing a mold according to claim 8, wherein,

the resist pattern is formed and the outer or inner periphery of said carbon plate is cut, with said carbon plate being firmly fastened onto a supporting base.

13. The method of manufacturing a mold according to claim 9, wherein,

the resist pattern is formed and the outer or inner periphery of said carbon plate is cut, with said carbon plate being firmly fastened onto a supporting base.

14. A method of manufacturing a recording medium comprising the steps of:

heating a substrate of a recording medium; and
pressing the mold of claim 1 onto the substrate.

15. A method of manufacturing a recording medium comprising the steps of:

heating a substrate of a recording medium; and
pressing the mold of claim 2 onto the substrate.

16. A method of manufacturing a recording medium comprising the steps of:

heating a substrate of a recording medium; and
pressing the mold of claim 3 onto the substrate.

17. A substrate of a recording medium which is manufactured by using the mold of claim 1.

18. A substrate of a recording medium which is manufactured by using the mold of claim 2.

19. A substrate of a recording medium which is manufactured by using the mold of claim 3.